

## Abstract

The invention relates to a method and an arrangement for compensating scanning disturbances on optical recording media such as occur in a control loop of a playback or recording unit, in particular as settling amplitude after a disk disturbance and are caused by scratches or dirt on the optical recording medium. In order to compensate the scanning disturbances, a follow-up signal counteracting the settling amplitude is coupled into the control loop as additional offset as a function of the frequency of the occurrence of a disk disturbance for a prescribed time interval. The follow-up signal is coupled into the control loop with a step width that is increased from revolution to revolution on the recording medium until the change in the direction of the settling amplitude of the control loop. Large follow-up signal values are produced in a stepwise fashion in the event of absence of the disk disturbance, in order to avoid large variations in the follow-up signal value. The duration of one revolution of the recording medium, or a shortened time interval up to the individual compensation of a plurality of disturbances during a revolution of the recording medium are provided as time interval for inserting the follow-up signal value. The invention is intended to be applied for playback or recording units of optical recording media.

Figure 4